

Chapter 13

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13.1 Overview

This chapter addresses the assessment of landslides in soil and rock, and the development of the mitigating measures needed to stabilize the landslide.

13.2 Development of Design Parameters and Other Input Data for Landslide Analysis

In addition to the site reconnaissance and geotechnical investigation requirements described in **WSDOT GDM Chapter 2**, the exploration requirements provided in Special TRB Report 247 “Landslides Investigation and Mitigation”, Turner and Schuster, editors (**1996**) or “Landslides in Practice” by **Cornforth (2005)**. Soil and rock properties for use in landslide analysis and mitigation shall be developed in accordance with **WSDOT GDM Chapter 5**.

13.3 Design Requirements

For landslides in soil and soft rock, the slope stability analysis methods and design requirements specified in **WSDOT GDM Chapter 7** shall be used. For rockslides, the stability analysis method specified in **WSDOT GDM Chapter 12** shall be used. The detailed requirements for analysis and mitigation design of landslides shall in addition be conducted in accordance with Special TRB Report 247 “Landslides Investigation and Mitigation”, Turner and Schuster, editors (**1996**) or “Landslides in Practice” by **Cornforth (2005)**.

13.4 References

Cornforth, D. H., 2005, Landslides in Practice, John Wiley and Sons, Hoboken, NJ, 596 pp.

Turner, A. K., and Schuster, R. L., editors, 1996, Landslides Investigation and Mitigation, Transportation Research Board, TRB Special Report 247, National Academy Press, Washington, DC, 673 pp.

